

PTO/SB/21 (09-04)

Approved for use through 07/31/2008. OMB 0851-0031

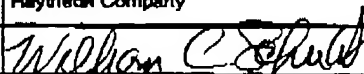
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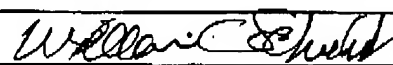
TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/815,133
	Filing Date	07/08/2003
	First Named Inventor	O'NEILL, Mary
	Art Unit	3841
	Examiner Name	CHAMBERS, Troy
Total Number of Pages in This Submission	Attorney Docket Number	02W234

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Duplicate fee transmittal PTO/SB/17
Remarks Responsive to Office action dated 08/17/2004		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Raytheon Company		
Signature			
Printed name	William C. Schubert		
Date	2004-10-14	Reg. No.	30,102

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name	William C. Schubert	Date	2004-10-14

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-04v2)

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FEE TRANSMITTAL
for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$ 110.00)**Complete if Known**

Application Number	10/615,133
Filing Date	07/08/2003
First Named Inventor	O'NEILL, Mary
Examiner Name	CHAMBERS, Troy
Art Unit	3641
Attorney Docket No.	02W234

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number	50-0816
Deposit Account Name	RAYTHEON COMPANY

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code (\$)	Fee (\$)	Fee Code (\$)	Fee (\$)		
1001	790	2001	395	Utility filing fee	
1002	350	2002	175	Design filing fee	
1003	550	2003	275	Plant filing fee	
1004	790	2004	395	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$ 0)**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims		Extra Claims		Fee from below		Fee Paid	
Independent		-20** =		X			
Multiple Dependent		-3** =		X			

Large Entity		Small Entity		Fee Description
Fee Code (\$)	Fee (\$)	Fee Code (\$)	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	88	2201	44	Independent claims in excess of 3
1203	300	2203	150	Multiple dependent claim, if not paid
1204	88	2204	44	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 0)

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Small Entity

Fee Code (\$)	Fee (\$)	Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	110
1252	430	2252	215	Extension for reply within second month	
1253	980	2253	490	Extension for reply within third month	
1254	1,530	2254	765	Extension for reply within fourth month	
1255	2,080	2255	1,040	Extension for reply within fifth month	
1401	340	2401	170	Notice of Appeal	
1402	340	2402	170	Filing a brief in support of an appeal	
1403	300	2403	150	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,370	2453	685	Petition to revive - unintentional	
1501	1,370	2501	685	Utility issue fee (or reissue)	
1502	490	2502	245	Design issue fee	
1503	880	2503	330	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(a)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR 1.129(b))	
1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 110.00)**SUBMITTED BY**

Name (Print/Type)	William C. Schubert	Registration No. (Attorney/Agent)	30,102	Telephone	8055622108
Signature	<i>William C. Schubert</i>	Date	2004-10-14		

(Complete if applicable)

In duplicate**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

SFPM TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

PTO/SB/17 (10-04v2)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Examiner Name	CHAMBERS, Troy
Art Unit	3641
Attorney Docket No.	02W234

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number	50-0616
Deposit Account Name	RAYTHEON COMPANY

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

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1001 790	2001 395	Utility filing fee	
1002 350	2002 175	Design filing fee	
1003 550	2003 275	Plant filing fee	
1004 790	2004 395	Reissue filing fee	
1005 100	2005 50	Provisional filing fee	

SUBTOTAL (1) (\$) 0**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

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1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

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1503 660	2503 330	Plant issue fee	
1480 130	1480 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
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1810 790	2810 395	For each additional invention to be examined (37 CFR 1.129(b))	
1801 790	2801 395	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 110.00**SUBMITTED BY**

Name (Print/Type)	William C. Schubert	Registration No. (Attorney/Agent)	30,102	Telephone	8055622108
Signature	<i>William C. Schubert</i>	Date	2004-10-14		

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PATENT
Attorney Docket No. 02W234

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of: : Date: October 14, 2004
O'NEILL, Mary :
Application No. 10/615,133 : Group Art Unit: 3641
Filed: 07/08/2003 :
For: OBSCURATION METHOD FOR REDUCING THE : Examiner: CHAMBERS, Troy
INFRARED SIGNATURE OF AN OBJECT : VIA FACSIMILE 703-872-9306

RESPONSE TO RESTRICTION REQUIREMENT

Commissioner for Patents
United States Patent and Trademark Office
P O BOX 1450
Alexandria VA 22313-1450

Sir:

In response to the Office action dated August 17, 2004, in this case, Applicant responds as follows:

With respect to the lettered group **a**, Applicant elects Species **E** directed to an obscuring agent comprising carbon dioxide gas and water vapor.

With respect to the lettered group **b**, Applicant elects Species **G** directed to a hot region comprising a plume of hot gas following from an aircraft.

With respect to the lettered group **c**, Applicant elects Species **I** directed to an obscuring agent generated by the aircraft.

With respect to the lettered group **d**, Applicant's attorney has spoken with the Examiner on October 14, 2004, concerning whether it is in fact Species **H** or Species **I** that should trigger the Applicant to elect either Species **J** or Species **K** from lettered group **d**. Applicant believes that it is the selection of Species **I** which Applicant has elected which should trigger the election of Species **J** or Species **K**. Therefore, Applicant elects Species **K** from lettered group **d**.

The claims readable in the aforesaid election of Species **C**, **G**, **I**, and **K** are claims 1, 2, 4, 6, 8, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, and 22.

The restriction requirement is traversed on the grounds that claim 1 is generic to all of the species mentioned in lettered groups **a** through **d**, inclusive, as is claim 22.

EXED

Application No. 10/15,133
Art Unit 3641
October 14, 2004

Page 2

Applicant requests reconsideration of the restriction requirement and examination of all the claims.

This response is submitted along with a petition and fee for a one-month extension of time for reply.

Respectfully submitted,



William C. Schubert, Registration No. 30,102
Telephone No. (805) 562-2108

Date: 2004-10-14

WCS:04rr.pto:02W234

VIA FACSIMILE

Attachments: Transmittal Form

Extension of Time (In duplicate for deposit account)

FY 2005 Fee Transmittal Form (In duplicate for deposit account)

CERTIFICATE OF MAILING OR TRANSMISSION

FAX 703-872-9306

I hereby certify that this correspondence and the documents attached therein are being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P O Box 1450, Alexandria VA 22313 or are being facsimile transmitted to the USPTO, on the date written:

William C. Schubert

(Depositor's name)



(Signature)

2004-10-14

(Date)